

What is claimed is:

1. A method for operating the facsimile mail box service subscriber apparatus comprising:

5 a first step of discriminating the type of a facsimile message as received;  
a second step of detecting an error according to the discriminated type and storing the received facsimile message;  
a third step of discriminating a transmittal mode of the facsimile message to be transmitted; and  
10 a fourth step of converting the facsimile data according to the discriminated transmittal mode and transmitting it.

2. The method according to claim 1, wherein the second step comprising:

15 a first sub-step of checking a FCS (Frame Check Sequence) in case that a received facsimile message is a data in ECM (Error Correction Mode) and storing the received facsimile message if no error is detected; and

a second sub-step of converting a general facsimile compressed data into a binary data in case that the received facsimile message is the general facsimile  
20 compressed data, checking whether there is an error through an MMR (Modified Modified READ), and storing the received facsimile message if no error is detected.

3. The method according to claim 1, wherein the first step comprising  
25 sub-steps:

storing a received facsimile message in a memory by means of a facsimile controller in case that the received facsimile message is a data in ECM after a type of the facsimile message is discriminated;

performing FCS checking for the stored facsimile message in ECM;

5 transmitting the facsimile message in ECM stored in the memory to a facsimile image data processor, in case that no error is detected in the FCS checking; and

storing the facsimile message in ECM in a buffer memory by means of a facsimile image data processor.

10 4. The method according to claim 3, further comprising a step of requesting a PSTN switching center to re-transmit the data, in case that an error is detected.

15 5. The method according to claim 2, wherein the second sub-step comprising steps of:

transmitting a received facsimile message to a facsimile image data processor, in case that the received facsimile message is a general facsimile compressed data upon discrimination of the type of the facsimile message;

20 decoding the received facsimile message to a facsimile image binary data by means of a facsimile image data processor;

checking whether there is an error according to an MMR decoding for the facsimile image binary data by means of the facsimile image data processor;

25 refusing to receive the data in case that its error rate of the data is larger than a rate set for judging a refusal to receive a data, performing a re-transmission

request procedure in case that its error rate is larger than a rate set for judging that the data is good and smaller than a rate set for judging a refusal to receive it, and storing the decoded facsimile image binary data in an image memory in case that its error rate is smaller than a rate for judging that the data is good, upon  
5 checking; and

reading the facsimile image binary data from the image memory and storing it in the buffer memory by means of the facsimile image data processor.

6. The method according to claim 1, wherein the third step  
10 comprising sub-steps of:

recording the facsimile image binary data of the buffer memory in the image memory upon being informed of the facsimile image binary data transmission;

coding the facsimile image binary data recorded in the image memory by  
15 means of the facsimile image data processor; and

discriminating a transmittal mode of the coded facsimile data.

7. The method according to claim 1, wherein the fourth step comprising sub-steps of:

20 converting a facsimile data to be transmitted to a frame data in ECM, in case that the facsimile data to be transmitted is discriminated to be a data in ECM; and

converting a facsimile data to be transmitted to a general facsimile compressed data in case that the facsimile data to be transmitted is not a data in  
25 ECM upon discrimination.

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8. A method for operating the facsimile mail box service subscriber apparatus comprising:

a first step of discriminating whether a received and restored facsimile data is a data in ECM or a general facsimile compressed data;

5 a second step of reverse-coding the general facsimile compressed data to a binary form in case that the received and restored facsimile data is a general facsimile compressed data, and detecting whether there is an error with it;

a third step of restoring an error if the error is detected and storing a facsimile image binary data in a good condition in an image memory; and

10 a fourth step of recording the facsimile image binary data stored in the image memory in the buffer memory, and recording the facsimile image binary data of the buffer memory in a storing unit when the recording is completed.

9. The method according to claim 8, wherein the third step  
15 comprising sub-steps of:

refusing to receive the data in case that its error rate of the data is larger than a rate set for judging a refusal to receive a data;

performing a re-transmission request procedure in case that its error rate is larger than a rate set for judging that the data is good and smaller than a rate  
20 set for judging a refusal to receive it; and

storing the reverse-coded facsimile image binary data in an image memory in case that its error rate is smaller than a rate for judging that the data is good.

25 10. The method according to claim 8, further comprising the steps of:

storing a received and restored facsimile data in a memory and checking whether there is an error through FCS checking, in case that the received and restored facsimile data is a data in ECM; and

storing the facsimile data in ECM in a buffer memory in case that no error  
5 is detected.

11. The method according to claim 8, further comprising the steps of:

reading a facsimile image binary data from the buffer memory and recording it in the image memory, in case that the buffer memory has the facsimile  
10 image binary data;

reading the facsimile image binary data from the image memory and coding it; and

identifying the transmittal mode of the coded data, converting it to a corresponding data form according to the transmittal mode, and transmitting it.  
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12. The method according to claim 11, further comprising:

converting the coded data to a frame data in ECM in case that the transmittal mode is an ECM; and

converting the coded data to a general facsimile compressed data form in  
20 case that the transmittal mode is not an ECM.

~~13.~~ A facsimile mail box service subscriber apparatus having a facsimile controller for processing a facsimile protocol and a facsimile data, a buffer memory for storing data to be received and transmitted from and to an  
25 external unit, and a memory for storing the facsimile data, comprising:

an image memory for storing a facsimile image binary data; and

a facsimile image data processor for receiving a coded facsimile data from  
a facsimile controller, reverse-coding the facsimile data to a binary data, storing it  
in the image memory and transmitting it to a buffer memory, and reading the  
5 facsimile image binary data recorded in the image memory, coding and storing it in  
a memory.

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